

## APPENDIX A4: NATIONAL ITS ARCHITECTURE MARKET PACKAGES

Market Package Bundle		Market Package	Scope
Archived Data	AD1	ITS Data Mart	S
	AD2	ITS Data Warehouse	S
	AD3	ITS Virtual Data Warehouse	S/I
Public Transportation	APTS1	Transit Vehicle Tracking	L
	APTS2	Transit Fixed-Route Operations	L
	APTS3	Demand Response Transit Operations	L
	APTS4	Transit Passenger and Fare Management	S/I
	APTS5	Transit Security	L
	APTS6	Transit Maintenance	L
	APTS7	Multi-Modal Coordination	I
	APTS8	Transit Traveler Information	I
Traveler Information	ATIS1	Broadcast Traveler Information	S/I
	ATIS2	Interactive Traveler Information	S/I
	ATIS3	Autonomous Route Guidance	P
	ATIS4	Dynamic Route Guidance	P
	ATIS5	ISP Based Route Guidance	P
	ATIS6	Integrated Transportation Management/Route Guidance	P
	ATIS7	Yellow Pages and Reservation	P
	ATIS8	Dynamic Ridesharing	L
	ATIS9	In Vehicle Signing	L
Traffic Management	ATMS01	Network Surveillance	S/L
	ATMS02	Probe Surveillance	L
	ATMS03	Surface Street Control	L
	ATMS04	Freeway Control	S/L
	ATMS05	HOV Lane Management	L
	ATMS06	Traffic Information Dissemination	S/L/I
	ATMS07	Regional Traffic Control	S/L/I
	ATMS08	Traffic Incident Management System	S/L/I
	ATMS09	Traffic Forecast and Demand Management	L
	ATMS10	Electronic Toll Collection	S/L/I
	ATMS11	Emissions Monitoring and Management	L
	ATMS12	Virtual TMC and Smart Probe Data	L
	ATMS13	Standard Railroad Grade Crossing	L
	ATMS14	Advanced Railroad Grade Crossing	L
	ATMS15	Railroad Operations Coordination	L
	ATMS16	Parking Facility Management	L
	ATMS17	Regional Parking Management	L
	ATMS18	Reversible Lane Management	L
	ATMS19	Speed Monitoring	L
	ATMS20	Drawbridge Management	L
	ATMS21	Roadway Closure Management	S/L



Market Package Bundle		Market Package	Scope
Vehicle Safety	AVSS01	Vehicle Safety Monitoring	P
	AVSS02	Driver Safety Monitoring	P
	AVSS03	Longitudinal Safety Warning	P
	AVSS04	Lateral Safety Warning	P
	AVSS05	Intersection Safety Warning	P
	AVSS06	Pre-Crash Restraint Deployment	P
	AVSS07	Driver Visibility Improvement	P
	AVSS08	Advanced Vehicle Longitudinal Control	P
	AVSS09	Advanced Vehicle Lateral Control	P
	AVSS10	Intersection Collision Avoidance	L/P
	AVSS11	Automated Highway System	P
Maintenance and Construction	MC01	Maintenance and Construction Vehicle and Equipment Tracking	L
	MC02	Maintenance and Construction Vehicle Maintenance	L
	MC03	Road Weather Data Collection	S/L
	MC04	Weather Information Processing and Distribution	L/I
	MC05	Roadway Automated Treatment	L
	MC06	Winter Maintenance	I
	MC07	Roadway Maintenance and Construction	S/L
	MC08	Work Zone Management	S/L/I
	MC09	Work Zone Safety Monitoring	L
	MC10	Maintenance and Construction Activity Coordination	I
Commercial Vehicle Operations	CVO01	Fleet Administration	P
	CVO02	Freight Administration	P
	CVO03	Electronic Clearance	S/P
	CVO04	CV Administrative Processes	S/P
	CVO05	International Border Electronic Clearance	S/P
	CVO06	Weigh-In-Motion	S/P
	CVO07	Roadside CVO Safety	S/P
	CVO08	On-board CVO and Freight Safety and Security	S/P
	CVO09	CVO Fleet Maintenance	P
	CVO10	HAZMAT Management	S
	CVO11	Roadside HAZMAT Security Detection and Mitigation	S
	CVO12	CV Driver Security Authentication	P
	CVO13	Freight Assignment Tracking	P
Emergency Management	EM01	Emergency Call-Taking and Dispatch	S/L/I
	EM02	Emergency Routing	S/L
	EM03	Mayday Support	I/P
	EM04	Roadway Service Patrols	L
	EM05	Transportation Infrastructure Protection	S/L/I
	EM06	Wider-Area Alert	S/I
	EM07	Early Warning System	S/I
	EM08	Disaster Response and Recover	S/I
	EM09	Evacuation and Reentry Management	S/I
	EM10	Disaster Traveler Information	S/I



### Legend

**S - State-level** - The service contains functions or interfaces that are statewide in nature. This service is covered by this project.

**I - Interregional** - The service contains functions or interfaces that are Interregional in nature. This service is covered by this project.

**L - Local** - The service contains functions or interfaces that are entirely local to a single region. This service is not covered by this project.

**P - Private** - The service is made up of functions or interfaces between private entities. This project will not cover the service.

**S/L - Statewide Standardization** - Where both S and L are identified for a service, that indicates that the services that are local in nature, but which have interfaces that are *candidates* for standardization on a statewide basis. By statewide standardization we mean statewide use of common data, message, and communications standards for transmitting information on an interface. These interfaces most commonly represent *candidates* for statewide standardization by Caltrans.